



REPLACEMENT SHEET

u 6

Best Available Copy

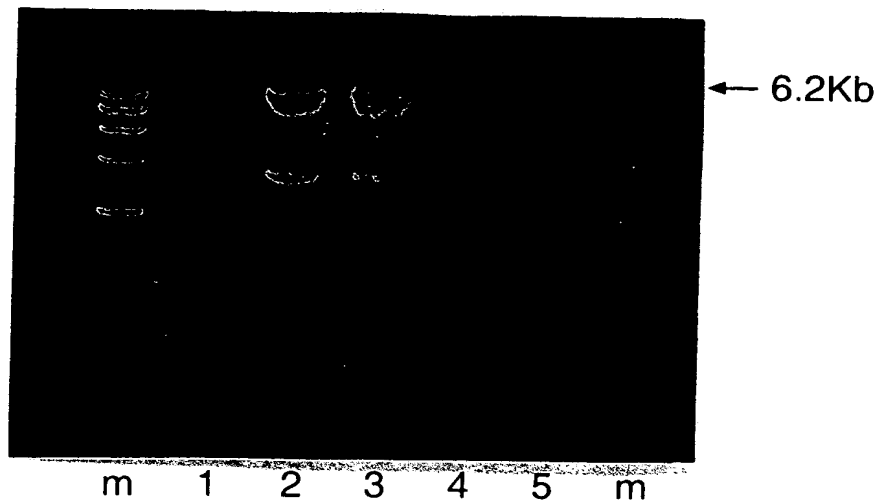


FIG. 1

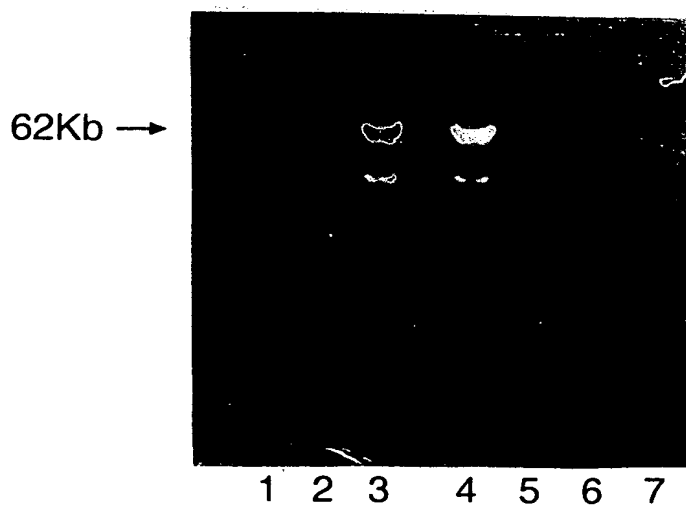


FIG. 2

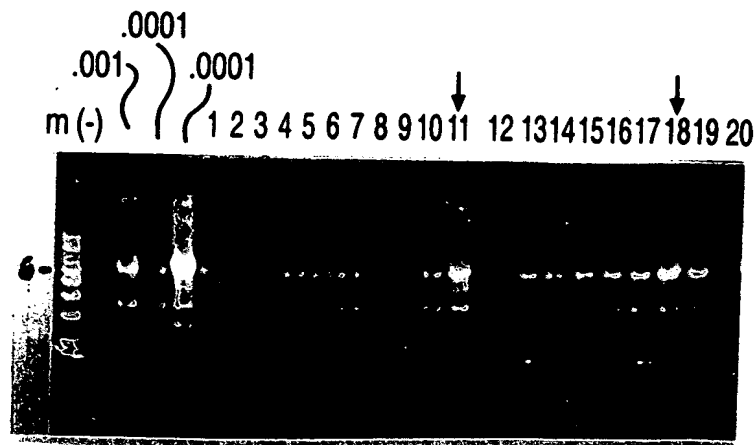


FIG. 3

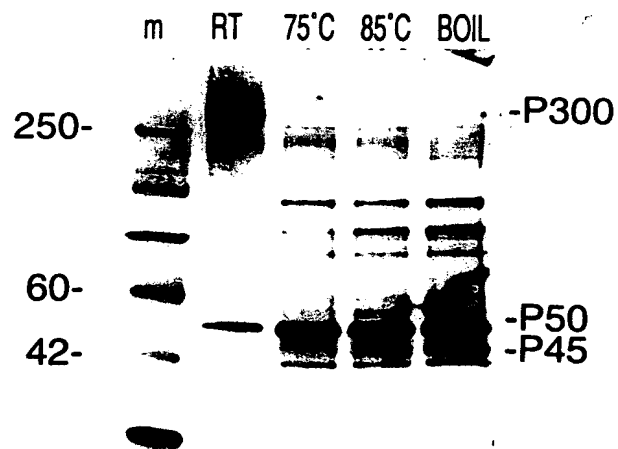


FIG. 7

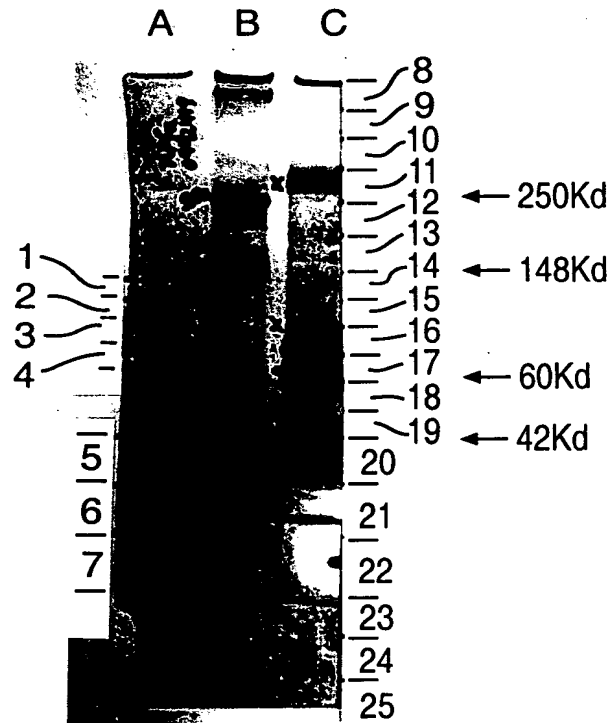


FIG. 4

REPLACEMENT SHEET

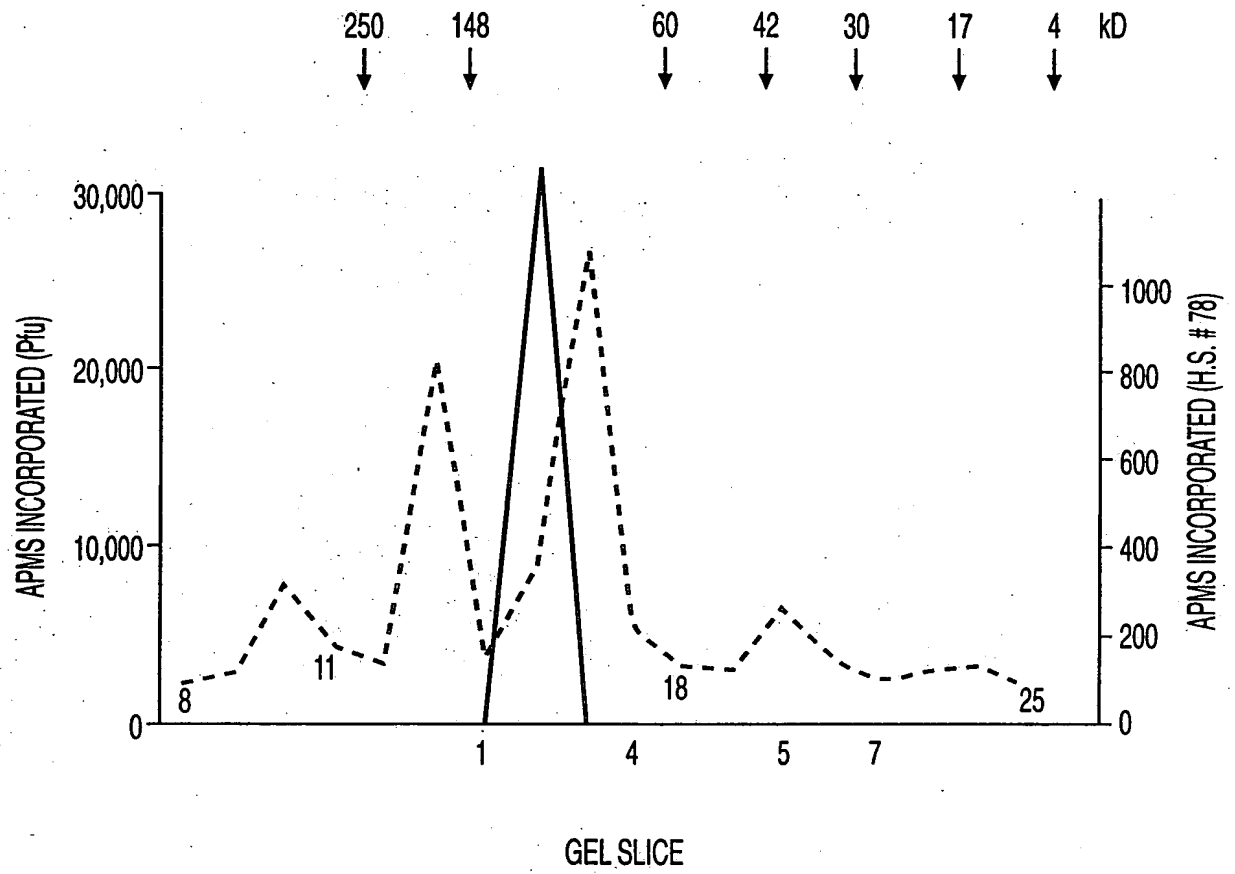


FIG. 5

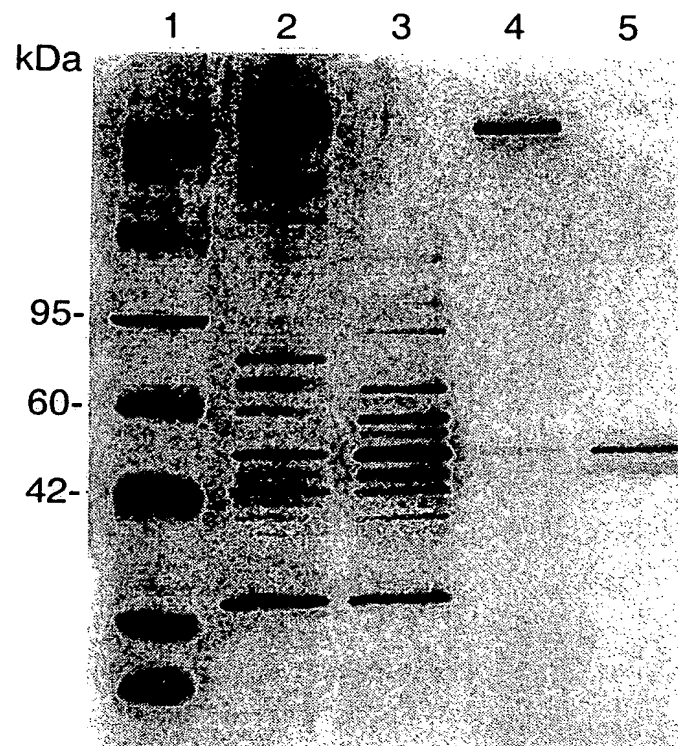


FIG. 6

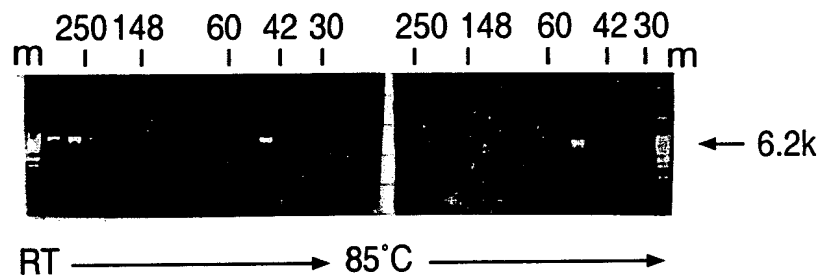


FIG. 8

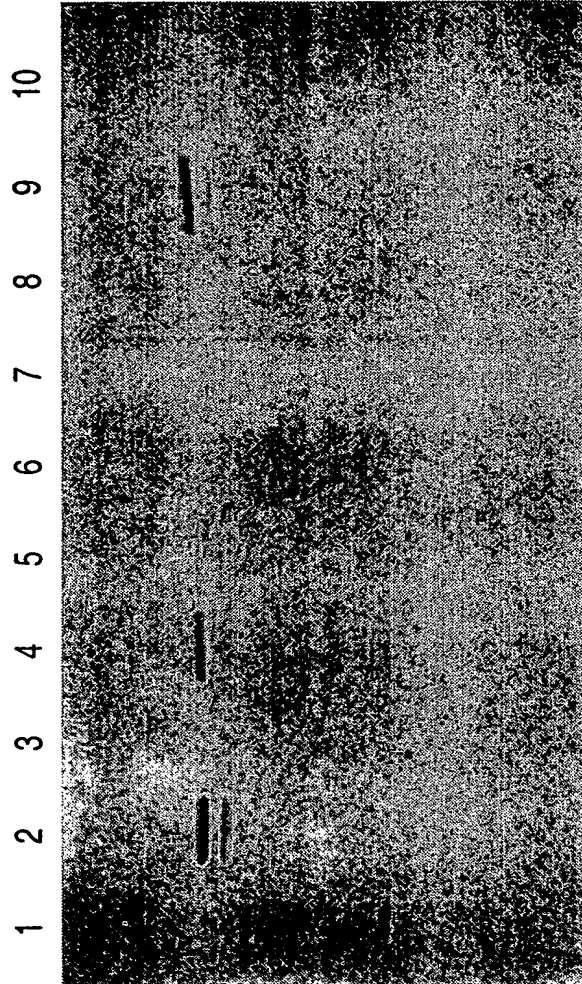


FIG. 9



FIG. 10

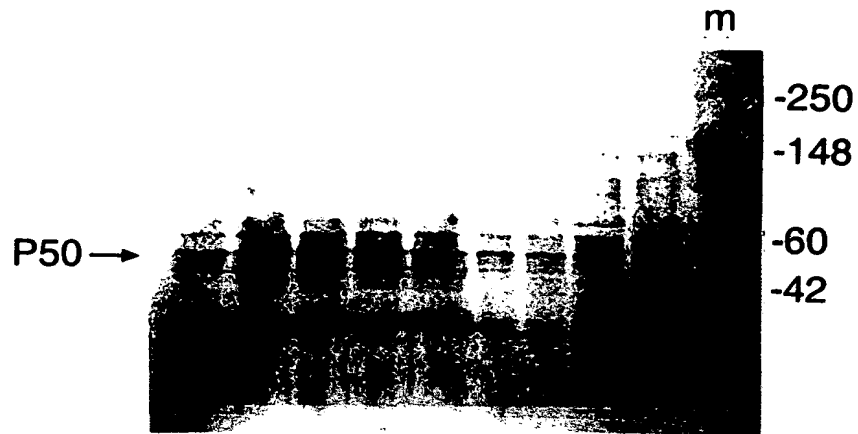


FIG. 11A

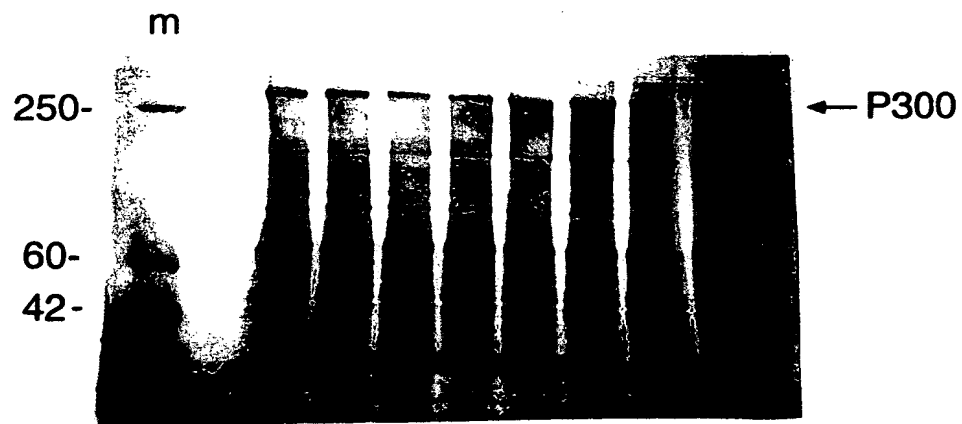


FIG. 11B

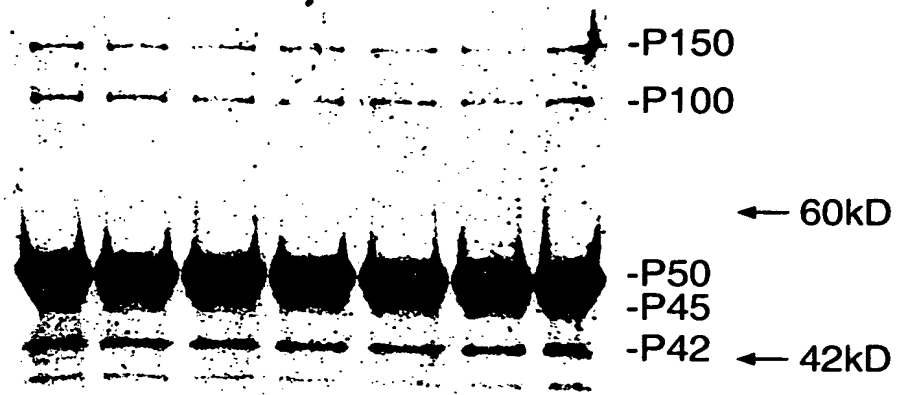


FIG. 12

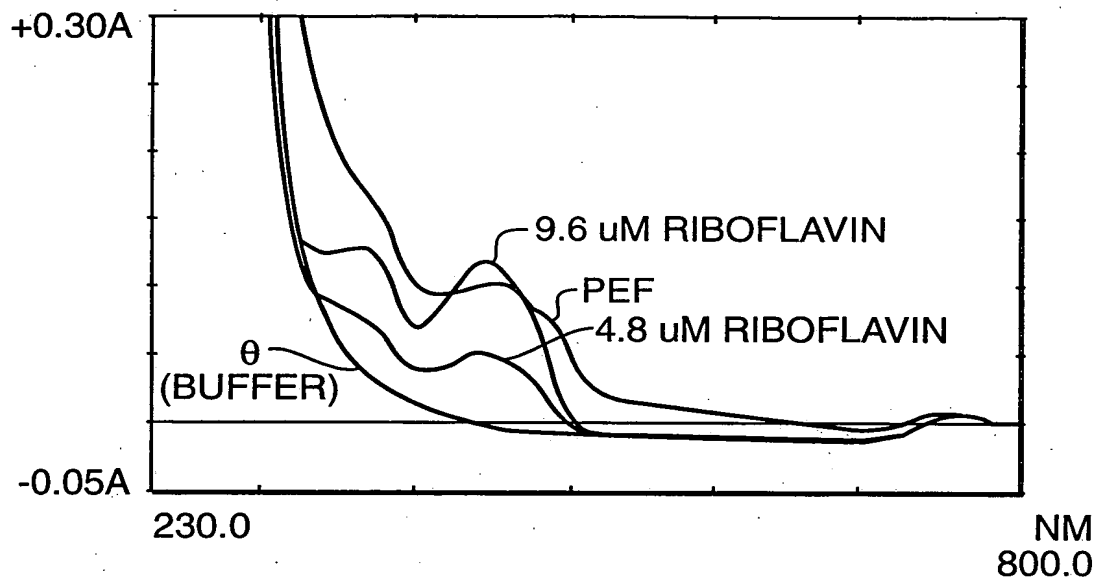


FIG. 13

PEF LOT 52				PEF LOT 49				CLONE 1				CLONE 23			
NONE	7	0.7	0.2	7	0.7	0.2		1 ul (1/10)	1 ul	5 ul		1 ul (1/10)	1 ul	5 ul	



FIG. 14

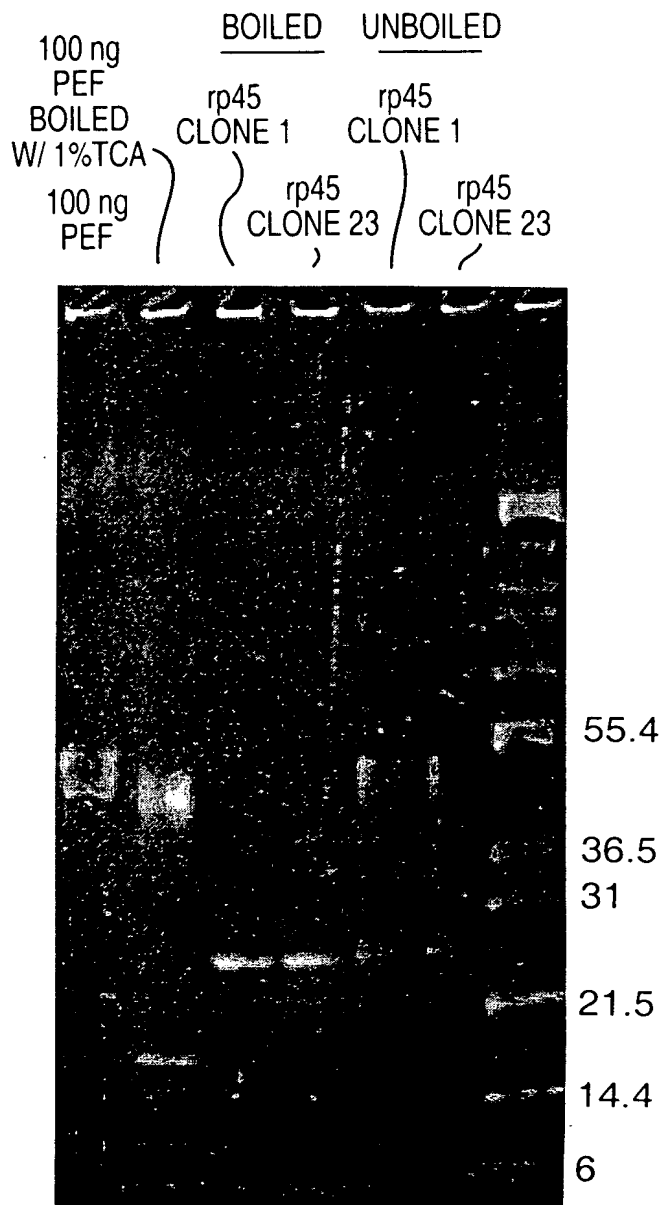


FIG. 15

REPLACEMENT SHEET

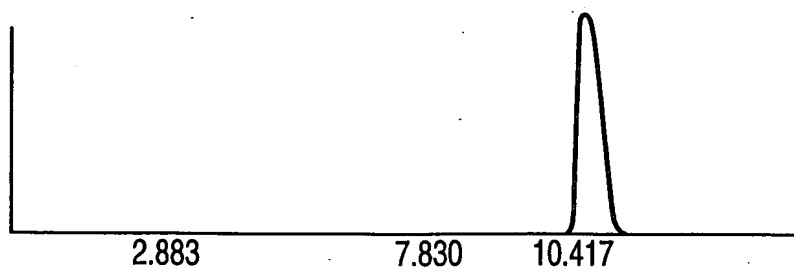


FIG. 16A

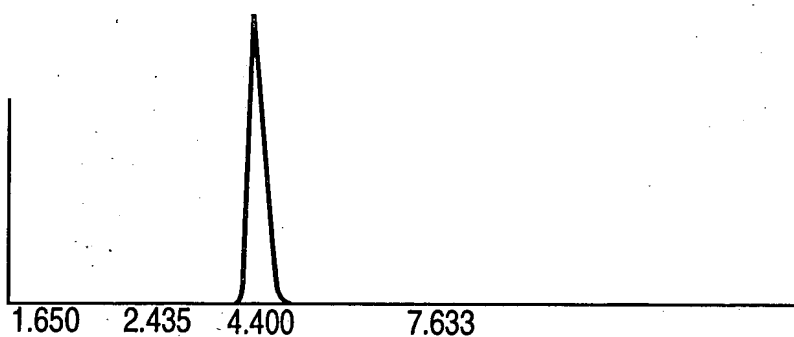


FIG. 16B

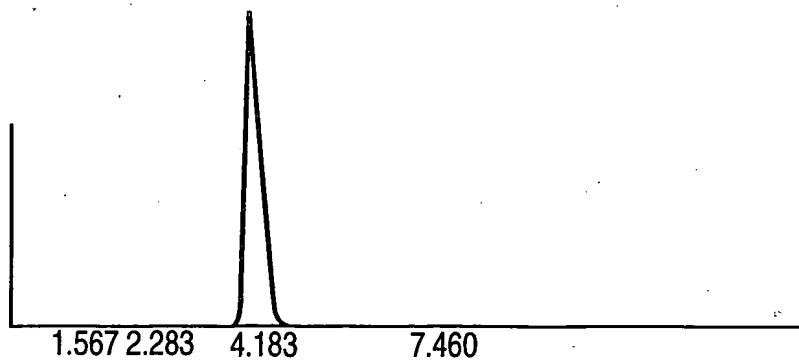


FIG. 16C

REPLACEMENT SHEET

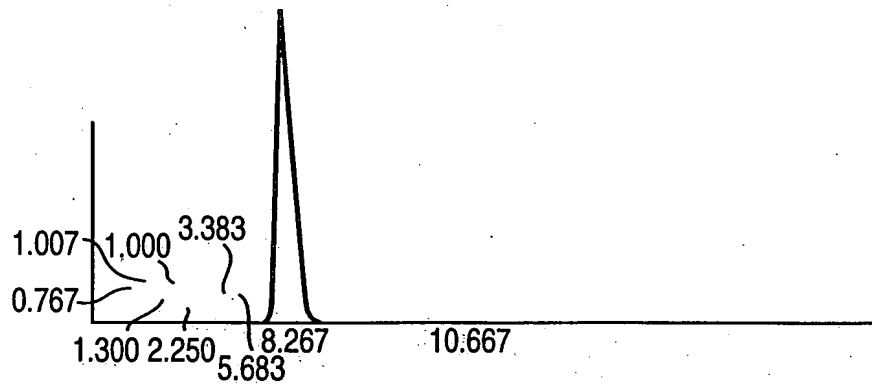


FIG. 16D

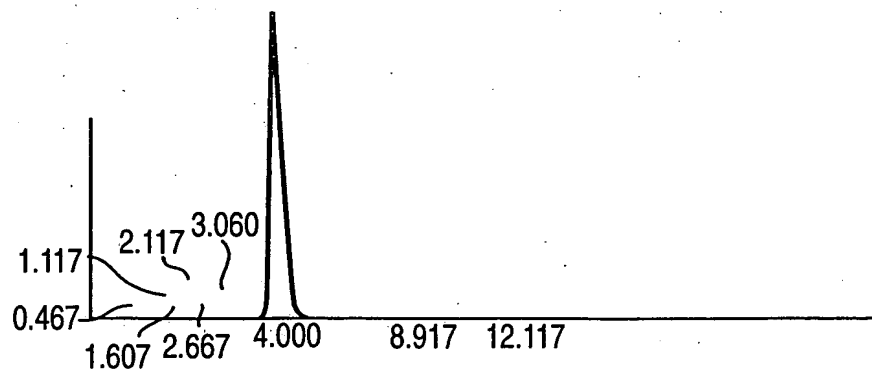


FIG. 16E

REPLACEMENT SHEET

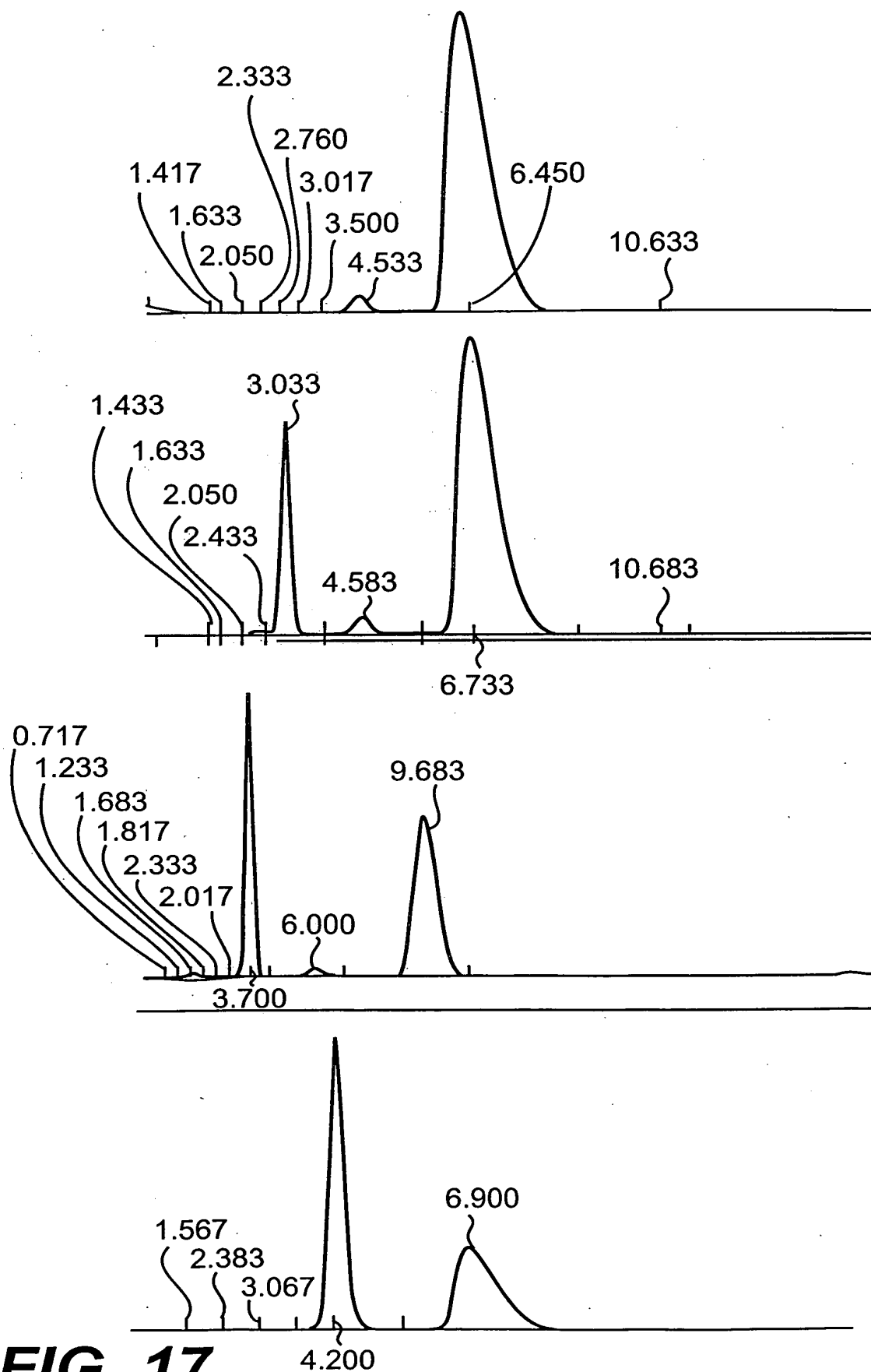


FIG. 17

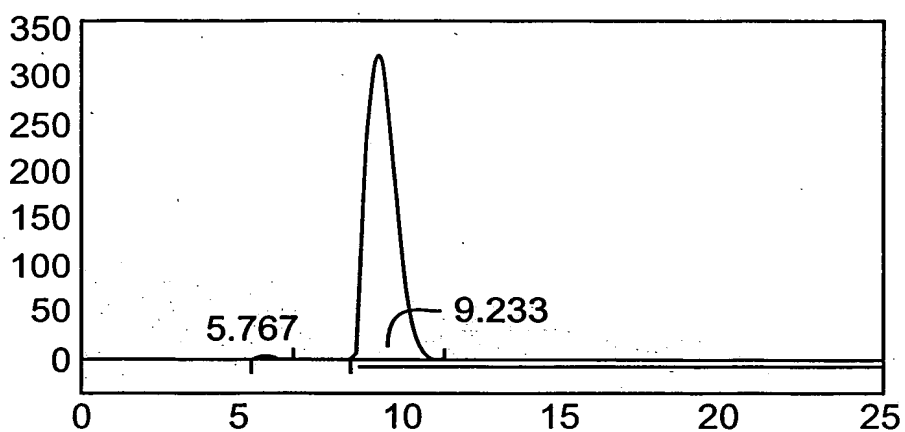


FIG. 18A

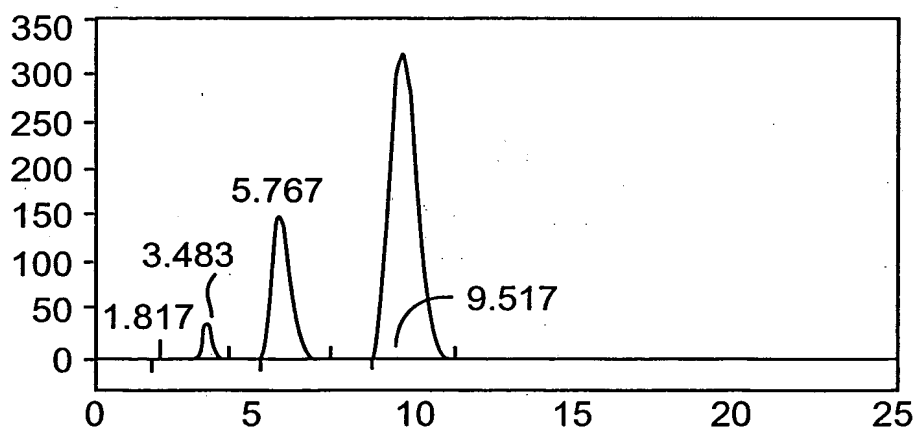


FIG. 18B

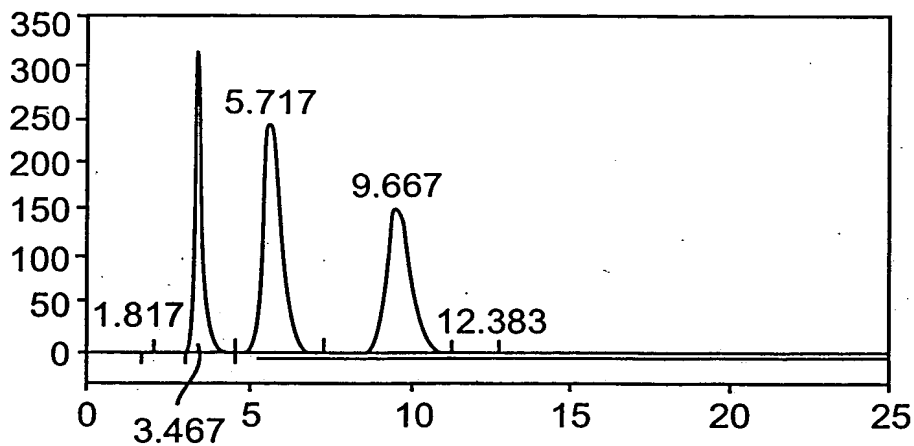


FIG. 18C

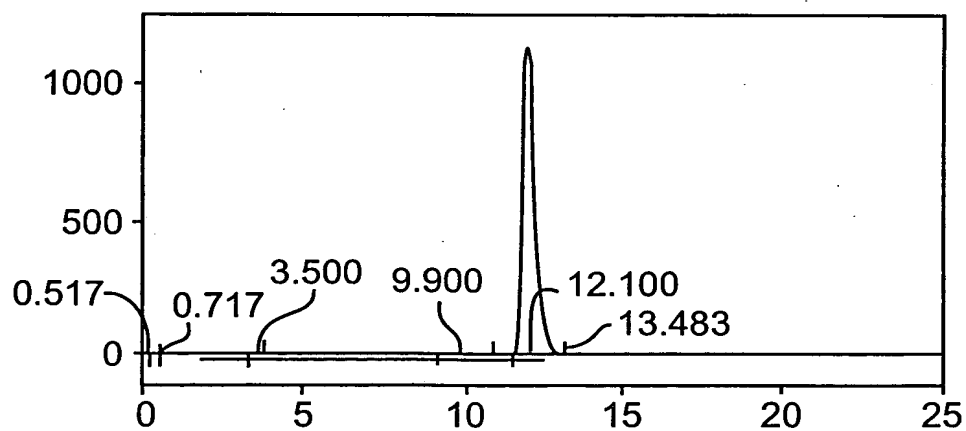


FIG. 18D

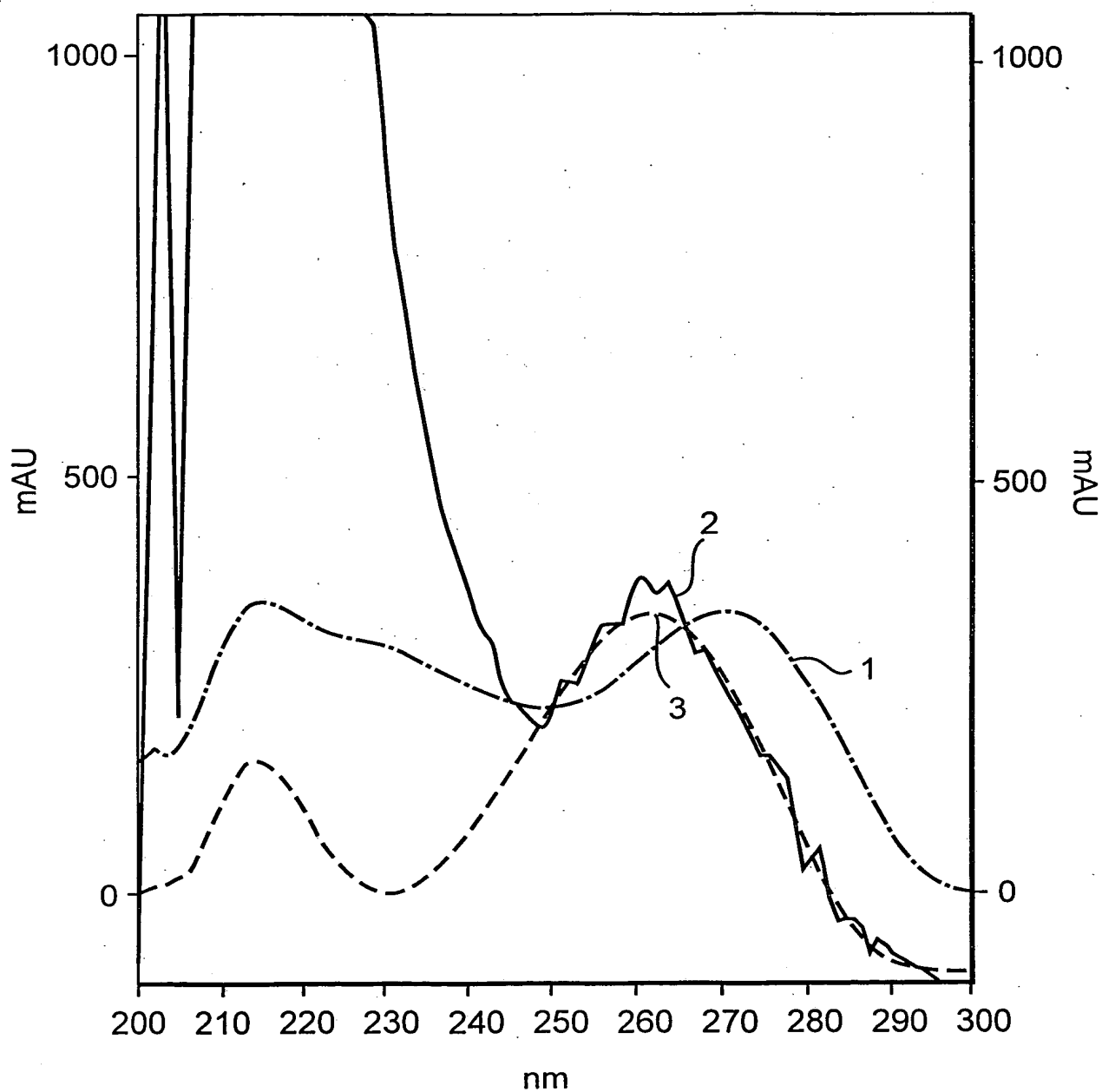


FIG. 19

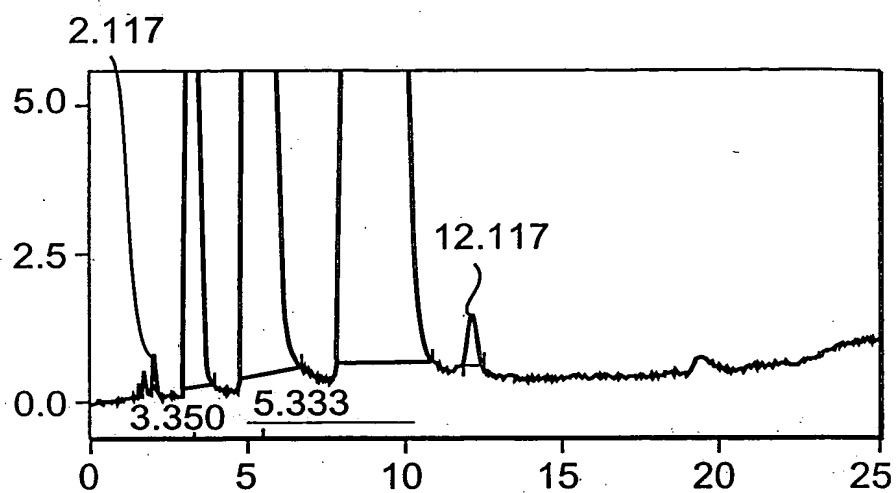


FIG. 20A

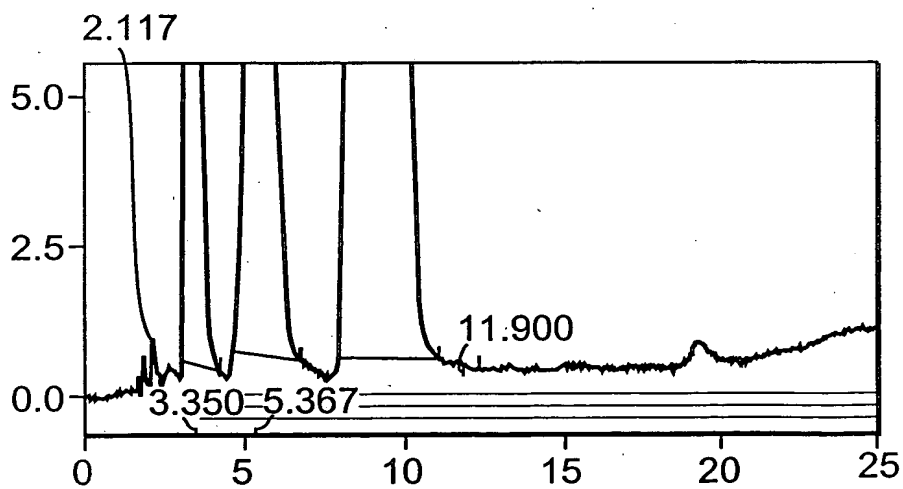


FIG. 20B

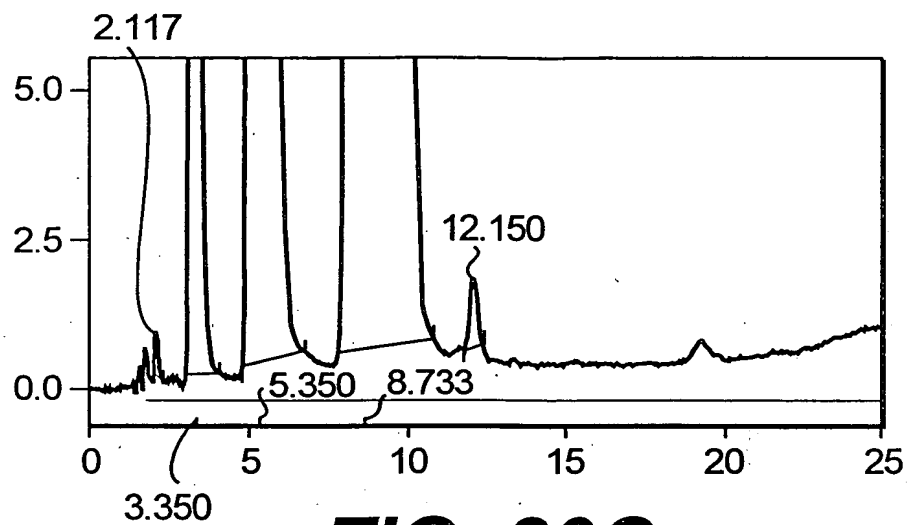


FIG. 20C

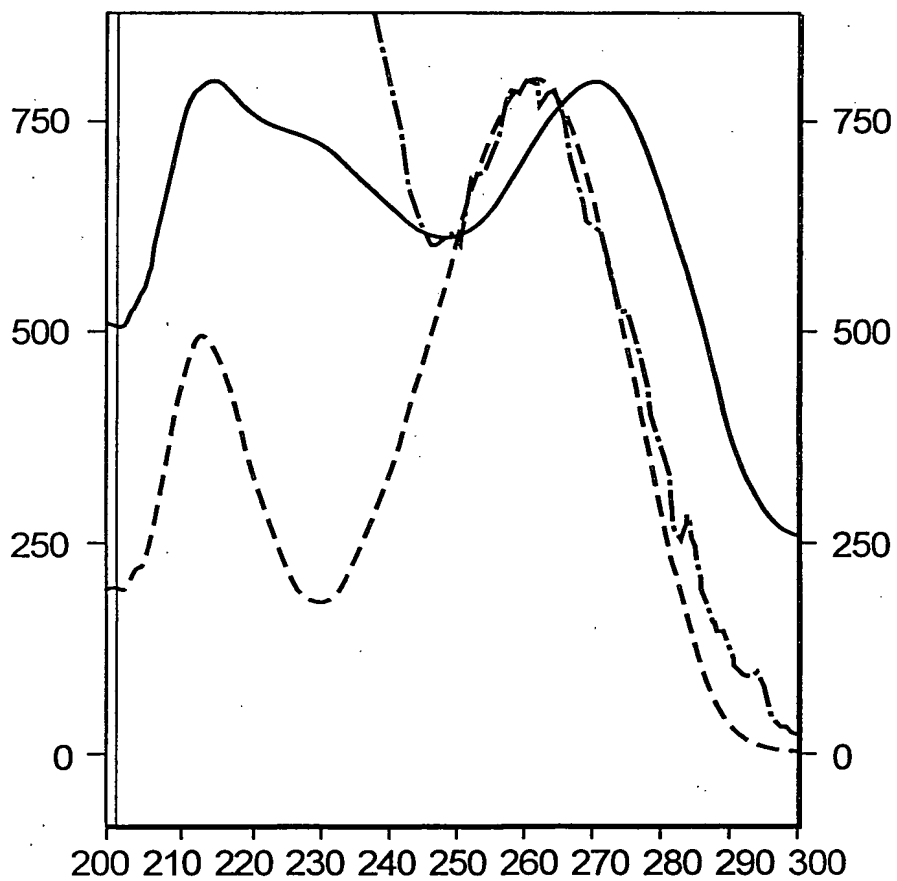


FIG. 20D

1 2 3 4 5 6 7 8 9 10 11 12 13

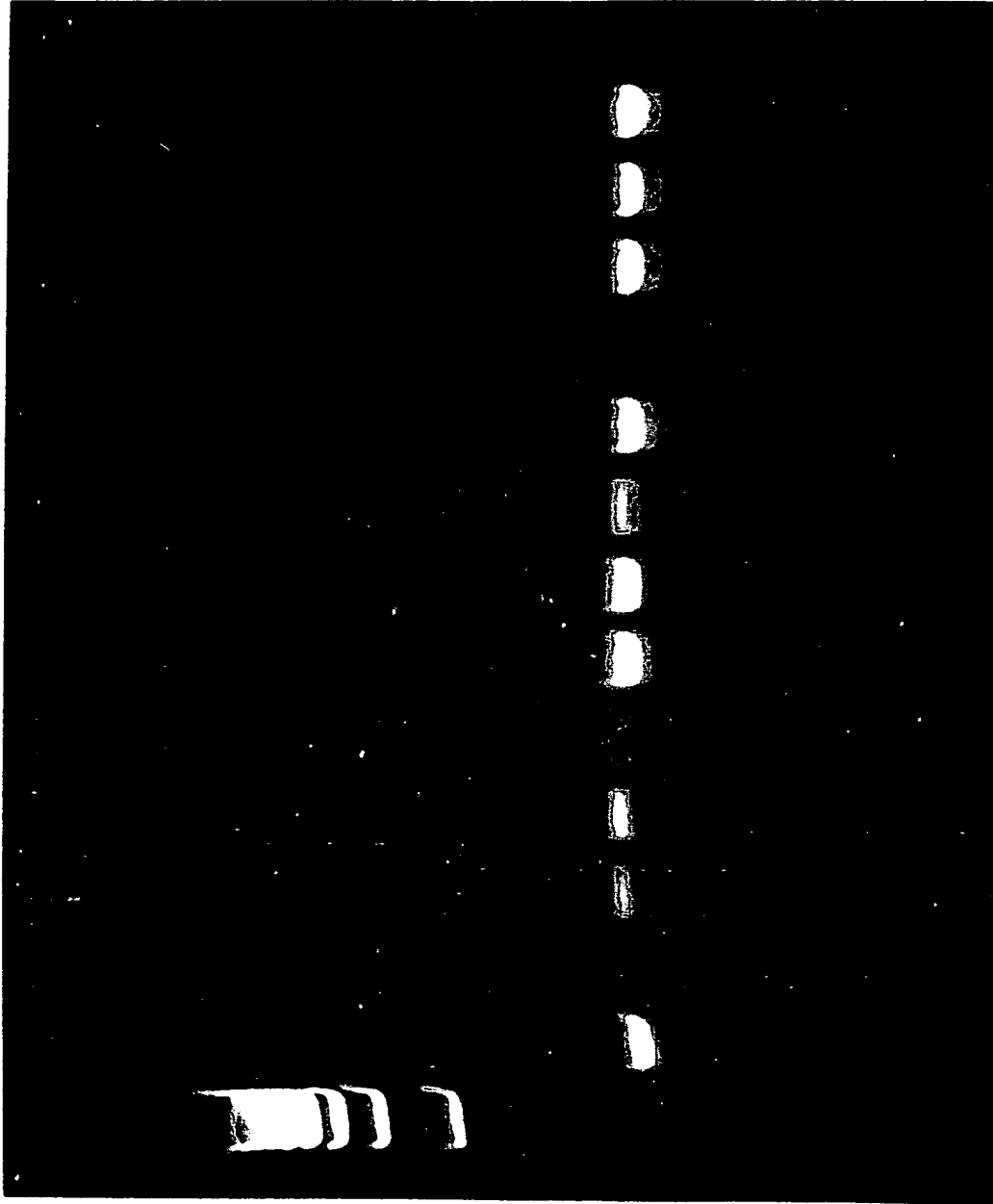


FIG. 21

Pfu Pol			Pfu Pol + PEF	Taq Pol
NO OLIGO	Pmole CONTROL OLIGO	Pmole dU OLIGO	Pmole dU OLIGO	Pmole dU OLIGO
PEF - +	16 8 1.6 0.8 0.16 M 0.08	0.016 M 16 8 1.6 0.8 0.16 0.08	0.016 16 8 1.6 0.8 0.16 0.08	0.16 16 8 1.6 0.8 0.08

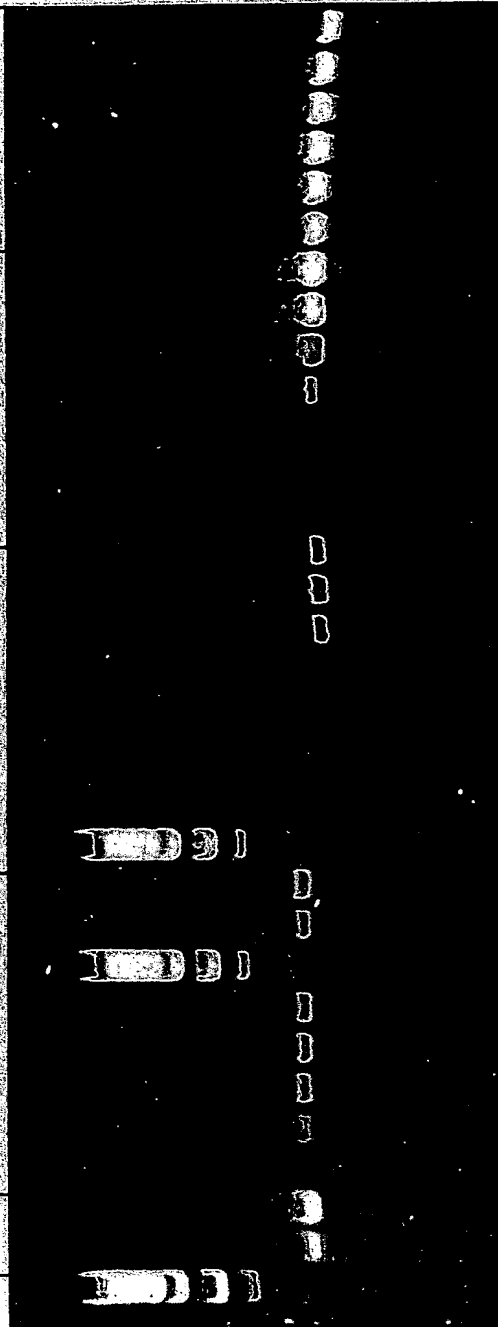


FIG. 22

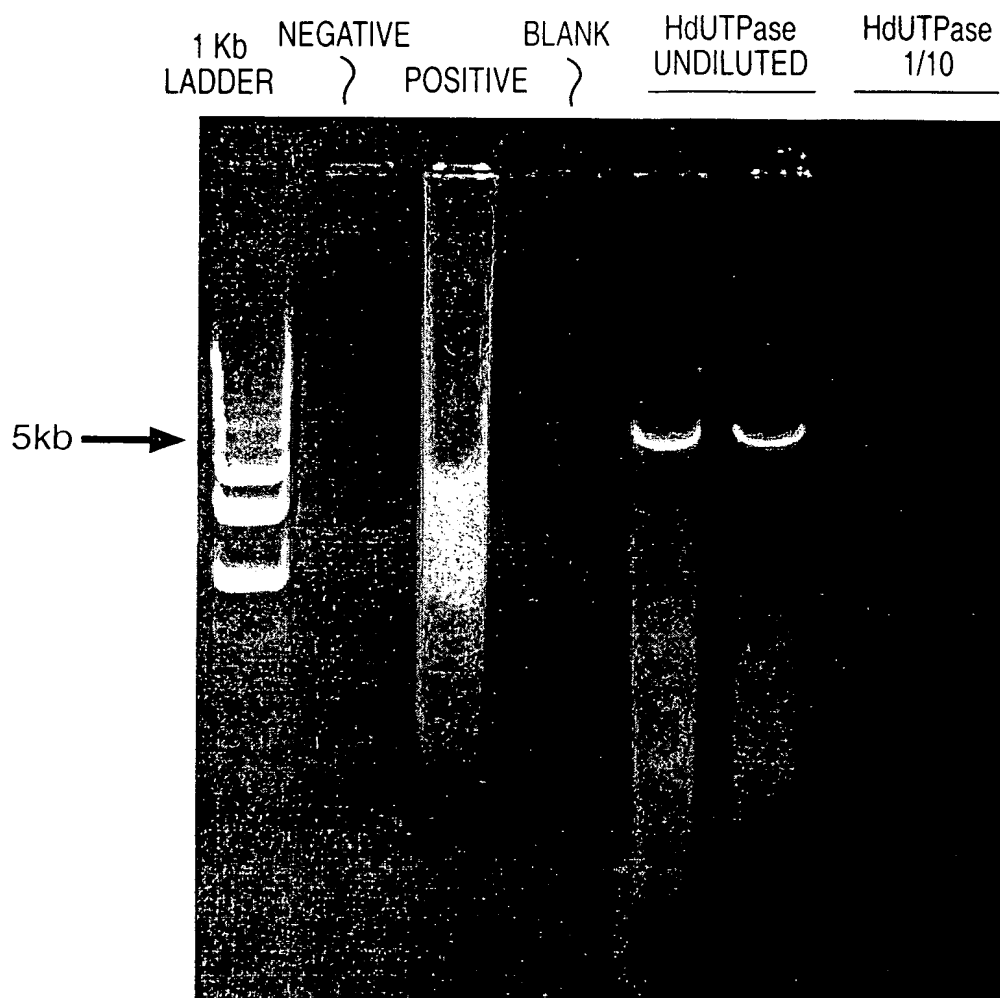


FIG. 23

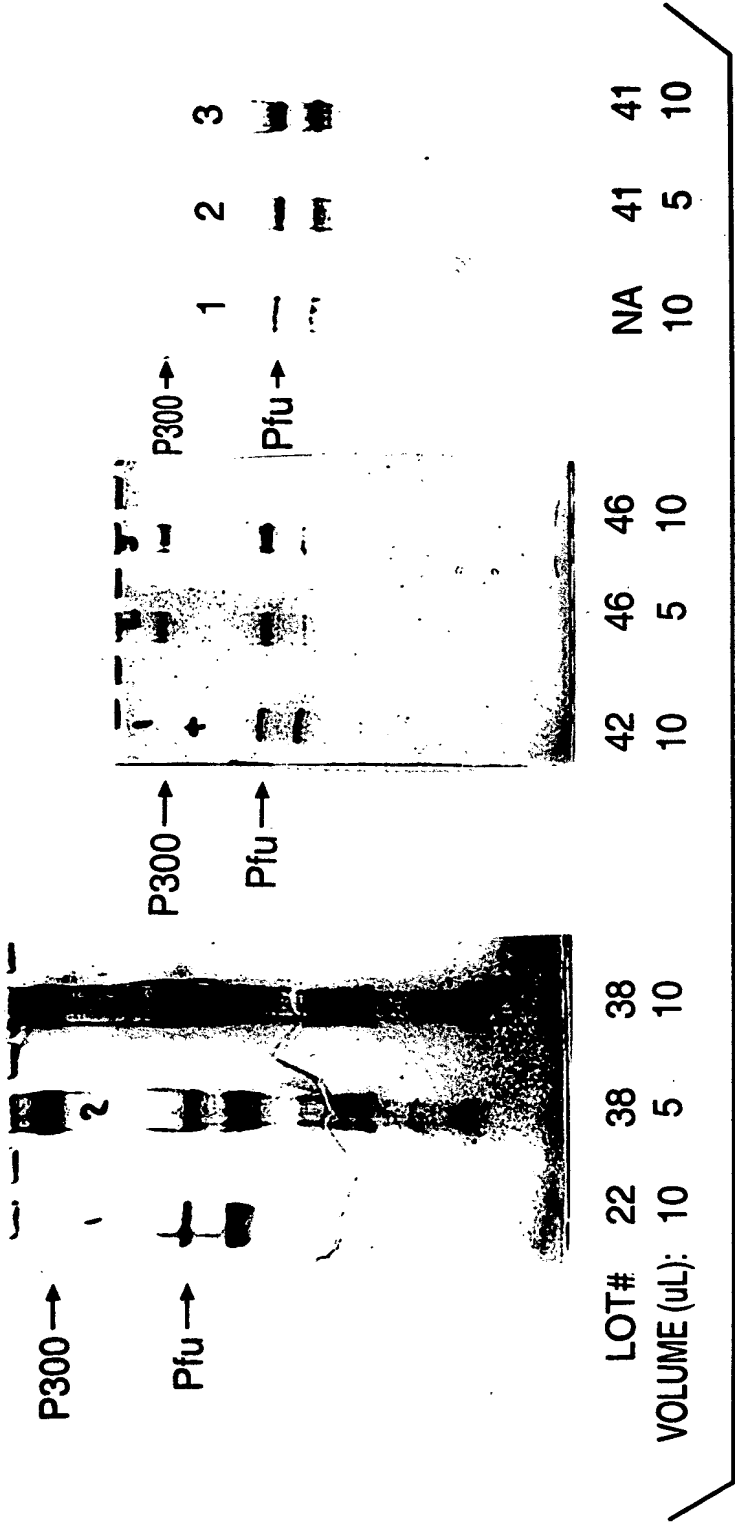


FIG. 24

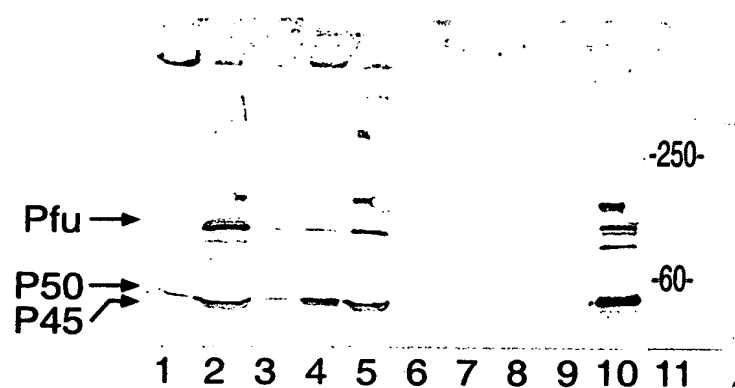


FIG. 25

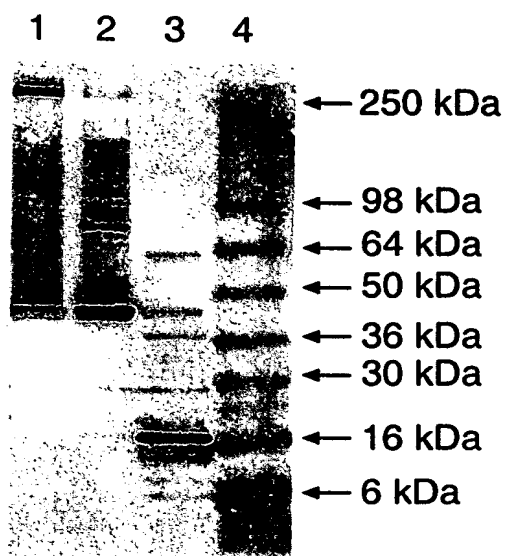


FIG. 26

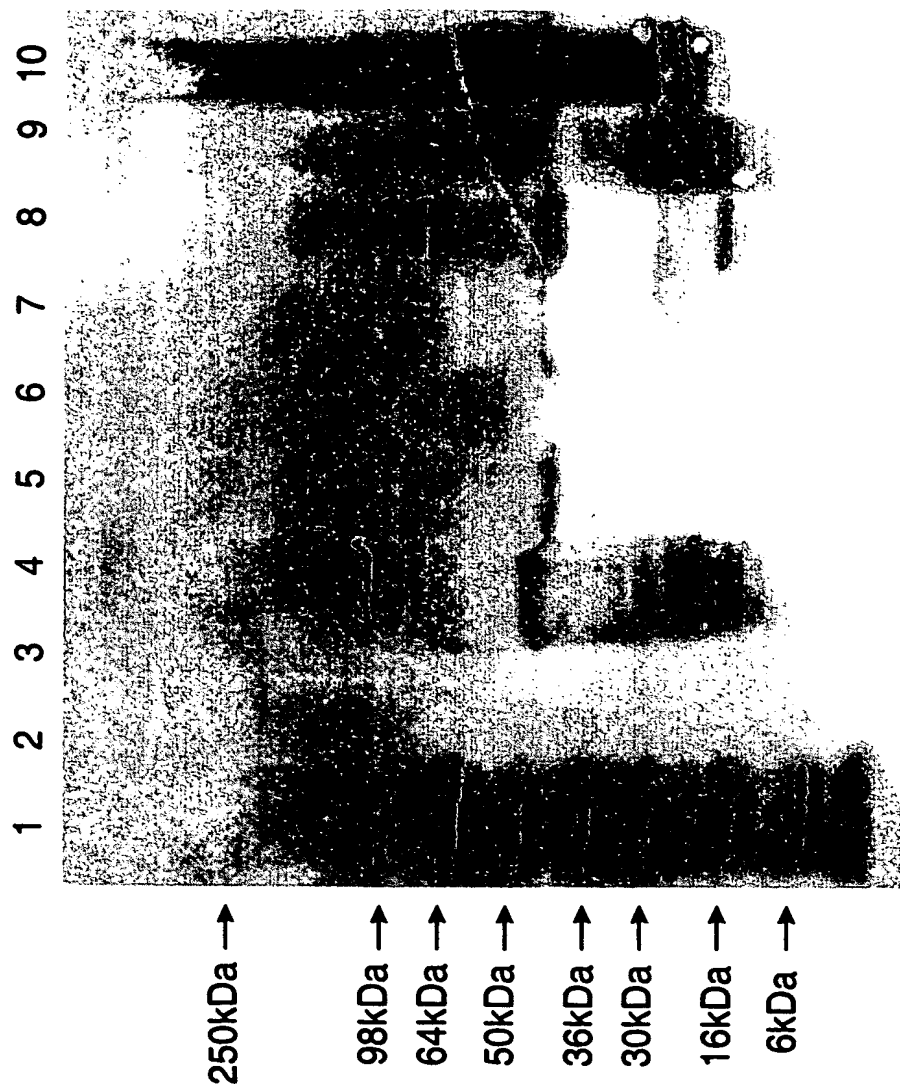


FIG. 27

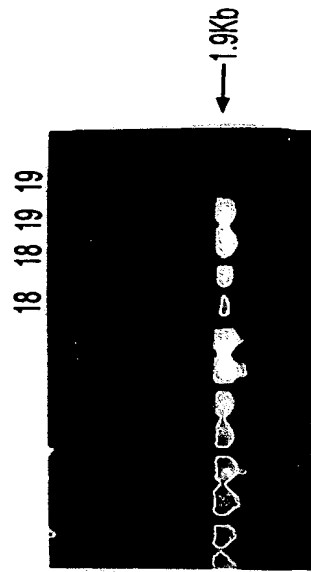


FIG. 28

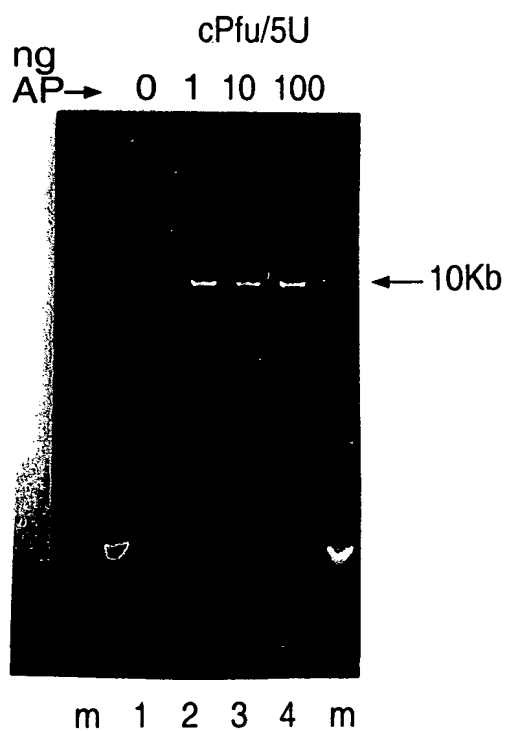


FIG. 29

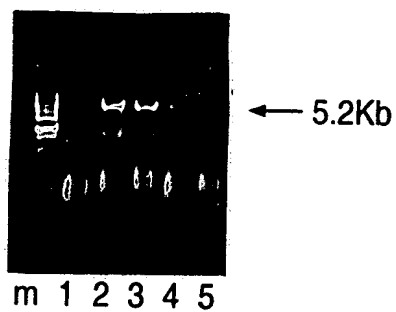


FIG. 30

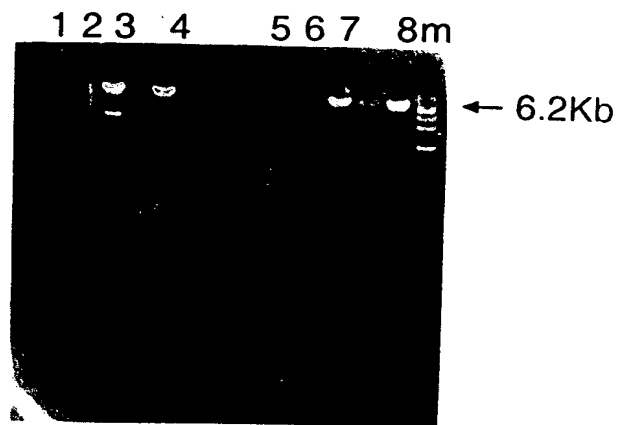


FIG. 31

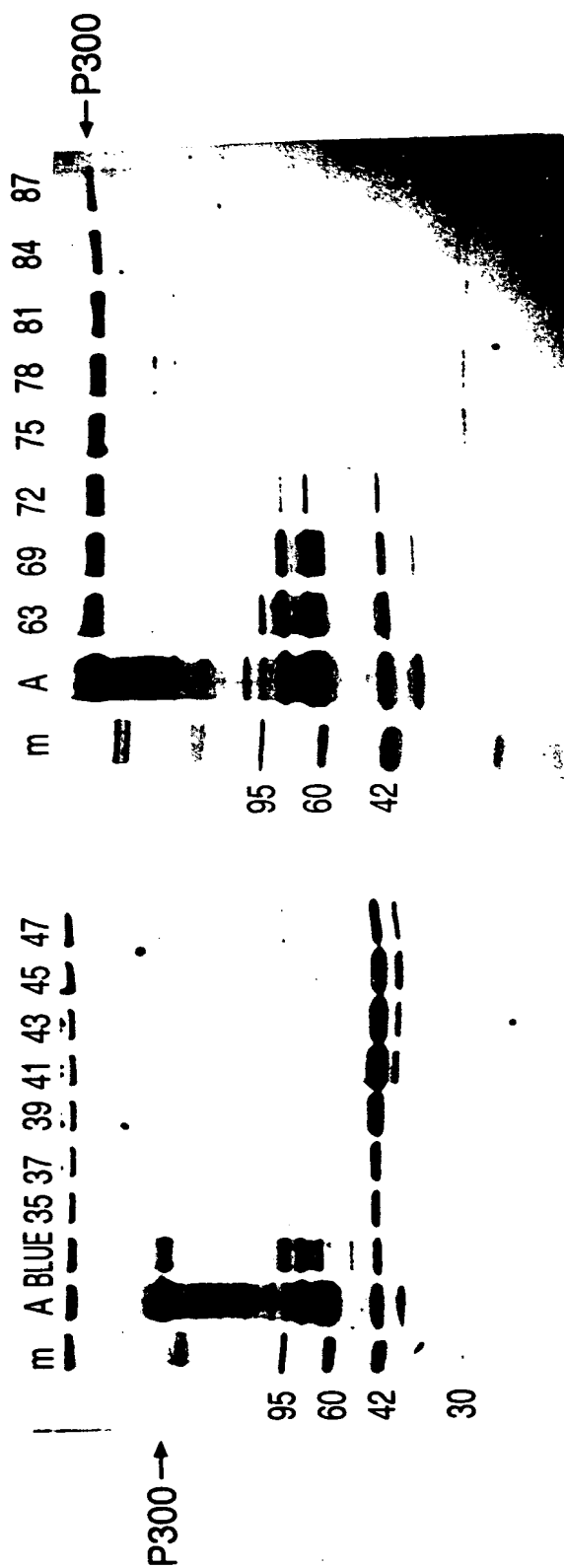


FIG. 32A

FIG. 32B

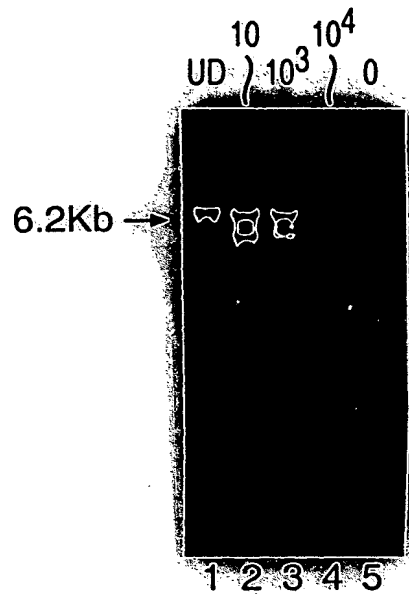


FIG. 33

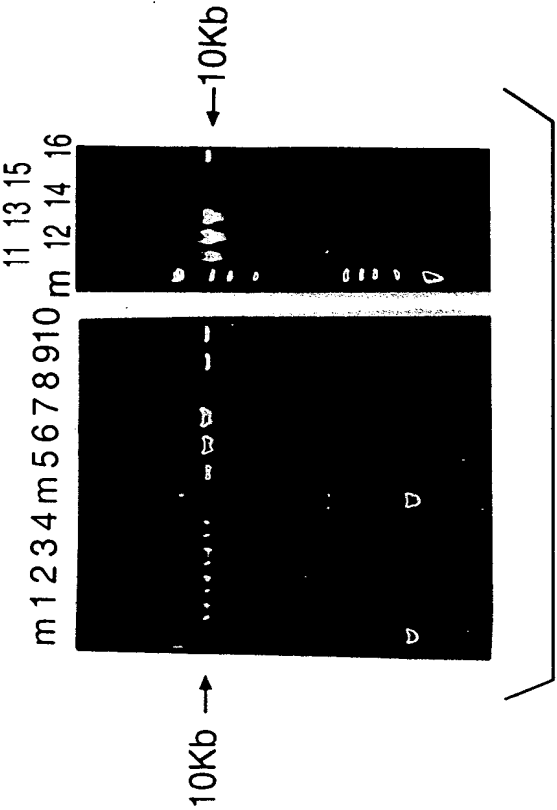


FIG. 34

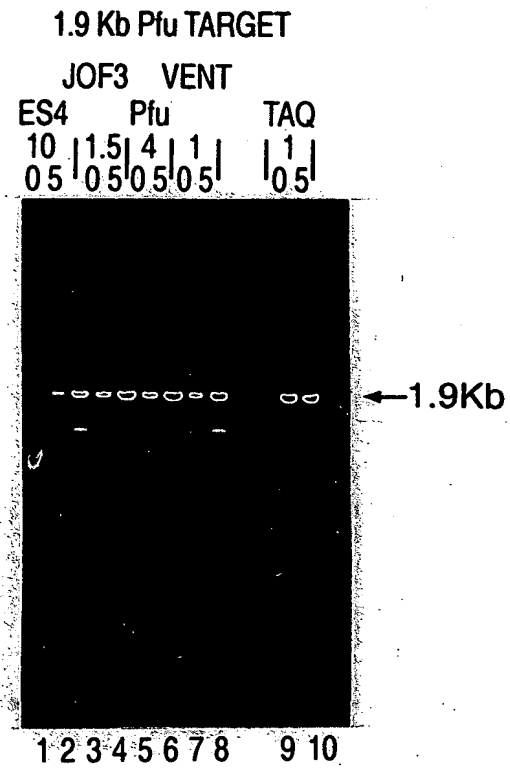


FIG. 35

DEEP VENT USING 0.75u

0 1 5 10



← 2Kb

FIG. 36

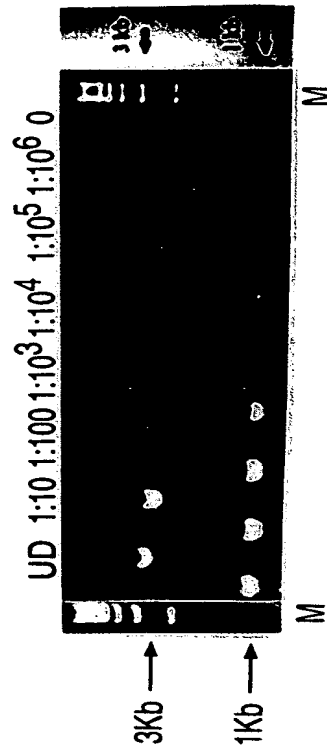


FIG. 37

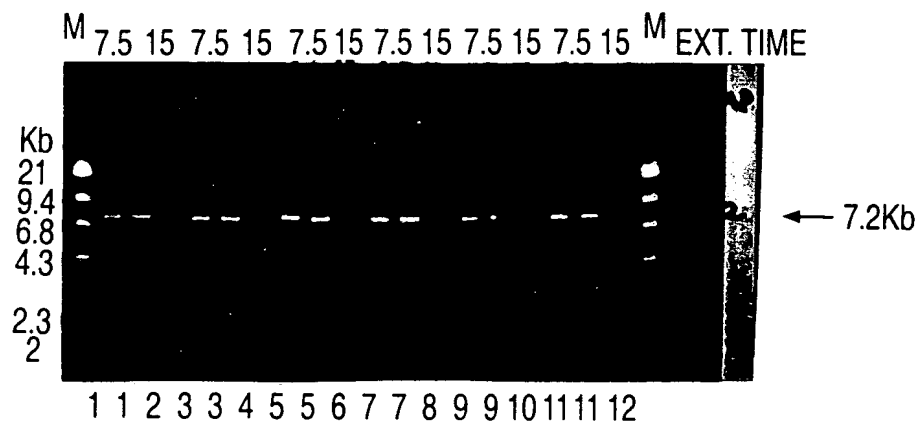


FIG. 38

Pfu "PCR ENHANCER" IN QUICKCHANGE MUTAGENESIS

LINEAR AMPLIFICATION CONDITIONS				TRANSFORMATION RESULTS	
<u>POL.</u>	<u>BUFFER</u>	<u>H.S. #75</u>	<u>AMPL. PROD.</u>	<u>#cfu</u>	<u>%MUTANTS</u>
nPfu (#38)	nPfu	0	+	84	95
		1 μ 1	\pm	47	87
		.1 μ 1	+	154	97
		.01 μ 1	++	632	95
		.001 μ 1	+	484	94
nPfu (#24A)	nPfu	0	+	94	89
		1 μ 1	+	34	85
		.1 μ 1	+	173	91
		.01 μ 1	++	468	96
		.001 μ 1	+	230	90

FIG. 39

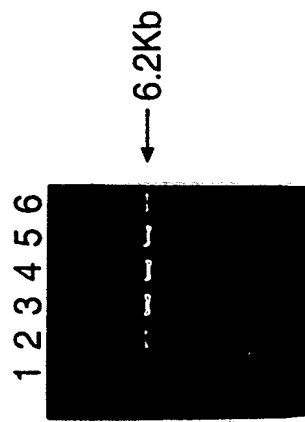


FIG. 40

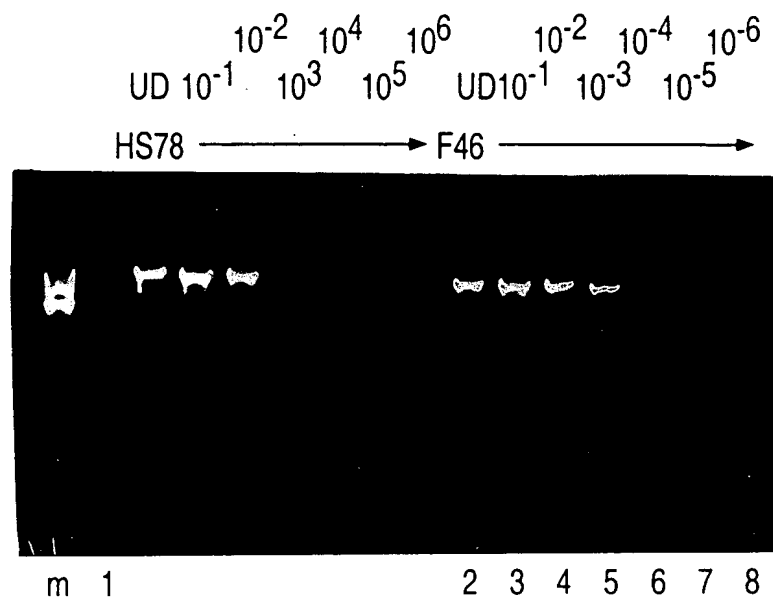


FIG. 41

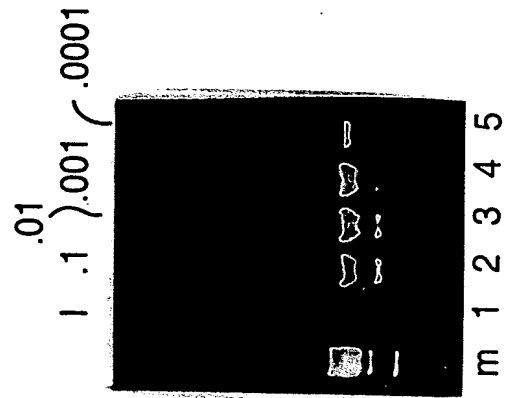


FIG. 42

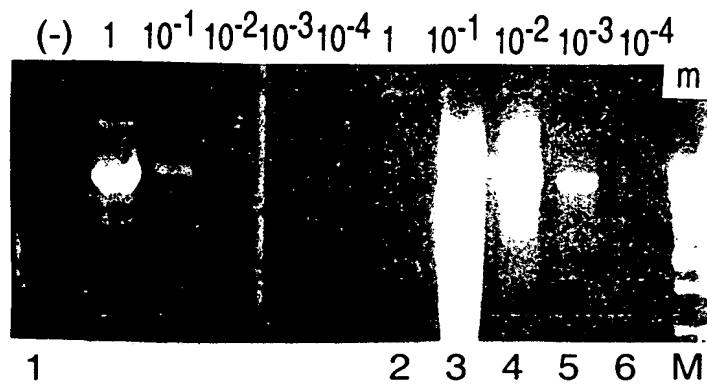


FIG. 43



FIG. 44A



FIG. 44B

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☒ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.